

Paul M Matthews

List of Publications by Year in descending order

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Version: 2024-02-01

306
papers

66,375
citations

997

114
h-index

834

245
g-index

330
all docs

330
docs citations

330
times ranked

56576
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in functional and structural MR image analysis and implementation as FSL. <i>NeuroImage</i> , 2004, 23, S208-S219.	4.2	11,375
2	Tract-based spatial statistics: Voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , 2006, 31, 1487-1505.	4.2	5,755
3	Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. <i>Nature Neuroscience</i> , 2003, 6, 750-757.	14.8	2,131
4	Large recurrent microdeletions associated with schizophrenia. <i>Nature</i> , 2008, 455, 232-236.	27.8	1,619
5	Common variants conferring risk of schizophrenia. <i>Nature</i> , 2009, 460, 744-747.	27.8	1,572
6	Distinct patterns of brain activity in young carriers of the <i>APOE</i> ϵ 4 allele. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7209-7214.	7.1	1,524
7	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016, 19, 1523-1536.	14.8	1,414
8	Scanning the horizon: towards transparent and reproducible neuroimaging research. <i>Nature Reviews Neuroscience</i> , 2017, 18, 115-126.	10.2	1,041
9	Dissociating Pain from Its Anticipation in the Human Brain. <i>Science</i> , 1999, 284, 1979-1981.	12.6	1,026
10	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. <i>NeuroImage</i> , 2018, 166, 400-424.	4.2	1,026
11	Oxygenation dependence of the transverse relaxation time of water protons in whole blood at high field. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1982, 714, 265-270.	2.4	949
12	SARS-CoV-2 is associated with changes in brain structure in UK Biobank. <i>Nature</i> , 2022, 604, 697-707.	27.8	825
13	Polarity-Sensitive Modulation of Cortical Neurotransmitters by Transcranial Stimulation. <i>Journal of Neuroscience</i> , 2009, 29, 5202-5206.	3.6	771
14	Meta-analysis of genome scans and replication identify <i>CD6</i> , <i>IRF8</i> and <i>TNFRSF1A</i> as new multiple sclerosis susceptibility loci. <i>Nature Genetics</i> , 2009, 41, 776-782.	21.4	729
15	The role of ipsilateral premotor cortex in hand movement after stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14518-14523.	7.1	720
16	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. <i>Brain</i> , 2007, 130, 2375-2386.	7.6	718
17	Exacerbation of Pain by Anxiety Is Associated with Activity in a Hippocampal Network. <i>Journal of Neuroscience</i> , 2001, 21, 9896-9903.	3.6	707
18	An 18-kDa Translocator Protein (TSPO) Polymorphism Explains Differences in Binding Affinity of the PET Radioligand PBR28. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1-5.	4.3	642

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19	Changes in connectivity profiles define functionally distinct regions in human medial frontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13335-13340.	7.1	632
20	Imaging Attentional Modulation of Pain in the Periaqueductal Gray in Humans. Journal of Neuroscience, 2002, 22, 2748-2752.	3.6	527
21	Correlation between motor improvements and altered fMRI activity after rehabilitative therapy. Brain, 2002, 125, 2731-2742.	7.6	521
22	Functionalâ€“Anatomical Validation and Individual Variation of Diffusion Tractography-based Segmentation of the Human Thalamus. Cerebral Cortex, 2005, 15, 31-39.	2.9	514
23	Semantic Processing in the Left Inferior Prefrontal Cortex: A Combined Functional Magnetic Resonance Imaging and Transcranial Magnetic Stimulation Study. Journal of Cognitive Neuroscience, 2003, 15, 71-84.	2.3	498
24	DTI measures in crossing-fibre areas: Increased diffusion anisotropy reveals early white matter alteration in MCI and mild Alzheimer's disease. NeuroImage, 2011, 55, 880-890.	4.2	468
25	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 65.	3.3	468
26	Reversible decreases in <i>N</i> -acetylaspartate after acute brain injury. Magnetic Resonance in Medicine, 1995, 34, 721-727.	3.0	453
27	Thalamic neurodegeneration in multiple sclerosis. Annals of Neurology, 2002, 52, 650-653.	5.3	451
28	Normalized Accurate Measurement of Longitudinal Brain Change. Journal of Computer Assisted Tomography, 2001, 25, 466-475.	0.9	449
29	Candidate Single-Nucleotide Polymorphisms From a Genomewide Association Study of Alzheimer Disease. Archives of Neurology, 2008, 65, 45-53.	4.5	443
30	Evidence of Axonal Damage in the Early Stages of Multiple Sclerosis and Its Relevance to Disability. Archives of Neurology, 2001, 58, 65-70.	4.5	439
31	Genome-wide association analysis of susceptibility and clinical phenotype in multiple sclerosis. Human Molecular Genetics, 2009, 18, 767-778.	2.9	419
32	Susceptibility-Induced Loss of Signal: Comparing PET and fMRI on a Semantic Task. NeuroImage, 2000, 11, 589-600.	4.2	400
33	Quantitative pathological evidence for axonal loss in normal appearing white matter in multiple sclerosis. Annals of Neurology, 2000, 47, 391-395.	5.3	389
34	Polarity and timing-dependent effects of transcranial direct current stimulation in explicit motor learning. Neuropsychologia, 2011, 49, 800-804.	1.6	378
35	Pathway and network-based analysis of genome-wide association studies in multiple sclerosis. Human Molecular Genetics, 2009, 18, 2078-2090.	2.9	371
36	White matter lesion progression, brain atrophy, and cognitive decline: The Austrian stroke prevention study. Annals of Neurology, 2005, 58, 610-616.	5.3	357

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37	Longitudinal changes in grey and white matter during adolescence. <i>NeuroImage</i> , 2010, 49, 94-103.	4.2	352
38	Mixed-Affinity Binding in Humans with 18-kDa Translocator Protein Ligands. <i>Journal of Nuclear Medicine</i> , 2011, 52, 24-32.	5.0	330
39	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. <i>Nature Communications</i> , 2020, 11, 2624.	12.8	324
40	Proton magnetic resonance spectroscopic imaging for metabolic characterization of demyelinating plaques. <i>Annals of Neurology</i> , 1992, 31, 235-241.	5.3	311
41	Diffusion-Weighted Imaging Tractography-Based Parcellation of the Human Lateral Premotor Cortex Identifies Dorsal and Ventral Subregions with Anatomical and Functional Specializations. <i>Journal of Neuroscience</i> , 2007, 27, 10259-10269.	3.6	303
42	Chemical pathology of acute demyelinating lesions and its correlation with disability. <i>Annals of Neurology</i> , 1995, 38, 901-909.	5.3	288
43	The Gut Hormones PYY3-36 and GLP-17-36 amide Reduce Food Intake and Modulate Brain Activity in Appetite Centers in Humans. <i>Cell Metabolism</i> , 2011, 14, 700-706.	16.2	288
44	Applications of fMRI in translational medicine and clinical practice. <i>Nature Reviews Neuroscience</i> , 2006, 7, 732-744.	10.2	287
45	Rapid Modulation of GABA Concentration in Human Sensorimotor Cortex During Motor Learning. <i>Journal of Neurophysiology</i> , 2006, 95, 1639-1644.	1.8	287
46	Proton magnetic resonance spectroscopy of human brain in vivo in the evaluation of multiple sclerosis: Assessment of the load of disease. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 154-159.	3.0	275
47	Reduction in Occipital Cortex $\hat{1}^3$ -Aminobutyric Acid Concentrations in Medication-Free Recovered Unipolar Depressed and Bipolar Subjects. <i>Biological Psychiatry</i> , 2007, 61, 806-812.	1.3	274
48	A common brain network links development, aging, and vulnerability to disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17648-17653.	7.1	268
49	Positron emission tomography molecular imaging for drug development. <i>British Journal of Clinical Pharmacology</i> , 2012, 73, 175-186.	2.4	263
50	Changes in white matter microstructure during adolescence. <i>NeuroImage</i> , 2008, 39, 52-61.	4.2	262
51	Ventral Striatum/Nucleus Accumbens Activation to Smoking-Related Pictorial Cues in Smokers and Nonsmokers: A Functional Magnetic Resonance Imaging Study. <i>Biological Psychiatry</i> , 2005, 58, 488-494.	1.3	259
52	The Evolution of Prefrontal Inputs to the Cortico-pontine System: Diffusion Imaging Evidence from Macaque Monkeys and Humans. <i>Cerebral Cortex</i> , 2006, 16, 811-818.	2.9	258
53	UK Biobank's cardiovascular magnetic resonance protocol. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 8.	3.3	254
54	Neurochemical Effects of Theta Burst Stimulation as Assessed by Magnetic Resonance Spectroscopy. <i>Journal of Neurophysiology</i> , 2009, 101, 2872-2877.	1.8	250

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55	Automatic Sleep Stage Scoring Using Time-Frequency Analysis and Stacked Sparse Autoencoders. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1587-1597.	2.5	242
56	The Role of the Posterior Fusiform Gyrus in Reading. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 911-922.	2.3	235
57	Rare Deletions at 16p13.11 Predispose to a Diverse Spectrum of Sporadic Epilepsy Syndromes. <i>American Journal of Human Genetics</i> , 2010, 86, 707-718.	6.2	231
58	Towards an understanding of gait control: brain activation during the anticipation, preparation and execution of foot movements. <i>NeuroImage</i> , 2004, 21, 568-575.	4.2	225
59	New approaches for exploring anatomical and functional connectivity in the human brain. <i>Biological Psychiatry</i> , 2004, 56, 613-619.	1.3	206
60	Neuroscience thinks big (and collaboratively). <i>Nature Reviews Neuroscience</i> , 2013, 14, 659-664.	10.2	206
61	Network analysis detects changes in the contralesional hemisphere following stroke. <i>NeuroImage</i> , 2011, 54, 161-169.	4.2	204
62	Single-Nucleus RNA-Seq Is Not Suitable for Detection of Microglial Activation Genes in Humans. <i>Cell Reports</i> , 2020, 32, 108189.	6.4	201
63	Subclinical myocardial inflammation and diffuse fibrosis are common in systemic sclerosis â€œ a clinical study using myocardial T1-mapping and extracellular volume quantification. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 21.	3.3	200
64	Increased Brain GABA Concentrations Following Acute Administration of a Selective Serotonin Reuptake Inhibitor. <i>American Journal of Psychiatry</i> , 2004, 161, 368-370.	7.2	194
65	Use of proton magnetic resonance spectroscopy for monitoring disease progression in multiple sclerosis. <i>Annals of Neurology</i> , 1994, 36, 76-82.	5.3	192
66	Functional anatomy of interhemispheric cortical connections in the human brain. <i>Journal of Anatomy</i> , 2006, 209, 311-320.	1.5	192
67	Mixed Neural Network Approach for Temporal Sleep Stage Classification. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 324-333.	4.9	192
68	Imaging in population science: cardiovascular magnetic resonance in 100,000 participants of UK Biobank - rationale, challenges and approaches. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 46.	3.3	188
69	Reduced brain functional reserve and altered functional connectivity in patients with multiple sclerosis. <i>Brain</i> , 2006, 129, 527-537.	7.6	187
70	Two Binding Sites for [³ H]PBR28 in Human Brain: Implications for TSPO PET Imaging of Neuroinflammation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1608-1618.	4.3	187
71	From The Cover: Morphology and the internal structure of words. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14984-14988.	7.1	178
72	Probabilistic diffusion tractography: a potential tool to assess the rate of disease progression in amyotrophic lateral sclerosis. <i>Brain</i> , 2006, 129, 1859-1871.	7.6	177

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73	In vivo evidence for axonal dysfunction remote from focal cerebral demyelination of the type seen in multiple sclerosis. <i>Brain</i> , 1999, 122, 1933-1939.	7.6	176
74	Attention to movement modulates activity in sensori-motor areas, including primary motor cortex. <i>Experimental Brain Research</i> , 2002, 142, 13-24.	1.5	174
75	LRRK2 Gly2019Ser penetrance in Arab Berber patients from Tunisia: a case-control genetic study. <i>Lancet Neurology</i> , The, 2008, 7, 591-594.	10.2	172
76	Combining shape and connectivity analysis: An MRI study of thalamic degeneration in Alzheimer's disease. <i>NeuroImage</i> , 2010, 49, 1-8.	4.2	171
77	Blood oxygenation level dependent contrast resting state networks are relevant to functional activity in the neocortical sensorimotor system. <i>Experimental Brain Research</i> , 2005, 167, 587-594.	1.5	167
78	Grey matter volume in a large cohort of MS patients: relation to MRI parameters and disability. <i>Multiple Sclerosis Journal</i> , 2011, 17, 1098-1106.	3.0	167
79	Neurofilaments: neurobiological foundations for biomarker applications. <i>Brain</i> , 2020, 143, 1975-1998.	7.6	167
80	Nicotine replacement in abstinent smokers improves cognitive withdrawal symptoms with modulation of resting brain network dynamics. <i>NeuroImage</i> , 2010, 52, 590-599.	4.2	166
81	Hemispheric Specialization for Processing Auditory Nonspeech Stimuli. <i>Cerebral Cortex</i> , 2006, 16, 1266-1275.	2.9	164
82	Diffuse Myocardial Fibrosis and Inflammation in Rheumatoid Arthritis. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 526-536.	5.3	164
83	MRI characteristics of the substantia nigra in Parkinson's disease: A combined quantitative T1 and DTI study. <i>NeuroImage</i> , 2009, 47, 435-441.	4.2	163
84	Potentially adaptive functional changes in cognitive processing for patients with multiple sclerosis and their acute modulation by rivastigmine. <i>Brain</i> , 2003, 126, 2750-2760.	7.6	162
85	Variability in fMRI: A re-examination of inter-session differences. <i>Human Brain Mapping</i> , 2005, 24, 248-257.	3.6	162
86	Brain Microstructure Reveals Early Abnormalities more than Two Years prior to Clinical Progression from Mild Cognitive Impairment to Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2013, 33, 2147-2155.	3.6	161
87	MRI and clinical studies of facial and bulbar muscle involvement in MuSK antibody-associated myasthenia gravis. <i>Brain</i> , 2006, 129, 1481-1492.	7.6	160
88	Testing for Dual Brain Processing Routes in Reading: A Direct Contrast of Chinese Character and Pinyin Reading Using fMRI. <i>Journal of Cognitive Neuroscience</i> , 2002, 14, 1088-1098.	2.3	158
89	Modulation of movement-associated cortical activation by transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2009, 30, 1412-1423.	2.6	156
90	Cortical activation changes underlying stimulation-induced behavioural gains in chronic stroke. <i>Brain</i> , 2012, 135, 276-284.	7.6	156

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91	Color of Scents: Chromatic Stimuli Modulate Odor Responses in the Human Brain. <i>Journal of Neurophysiology</i> , 2005, 93, 3434-3441.	1.8	155
92	Shared genetic pathways contribute to risk of hypertrophic and dilated cardiomyopathies with opposite directions of effect. <i>Nature Genetics</i> , 2021, 53, 128-134.	21.4	155
93	Pro-inflammatory activation of primary microglia and macrophages increases 18â€%kDa translocator protein expression in rodents but not humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2679-2690.	4.3	153
94	Altered Hemodynamic Responses in Patients After Subcortical Stroke Measured by Functional MRI. <i>Stroke</i> , 2002, 33, 103-109.	2.0	151
95	Increased PK11195 PET binding in the cortex of patients with MS correlates with disability. <i>Neurology</i> , 2012, 79, 523-530.	1.1	150
96	White matter abnormalities and brain activation in schizophrenia: A combined DTI and fMRI study. <i>Schizophrenia Research</i> , 2007, 89, 1-11.	2.0	147
97	Changes in Gray Matter Volume and White Matter Microstructure in Adolescents with Obsessive-Compulsive Disorder. <i>Biological Psychiatry</i> , 2011, 70, 1083-1090.	1.3	146
98	Anatomically-distinct genetic associations of APOE É4 allele load with regional cortical atrophy in Alzheimer's disease. <i>NeuroImage</i> , 2009, 44, 724-728.	4.2	144
99	Minocycline reduces chronic microglial activation after brain trauma but increases neurodegeneration. <i>Brain</i> , 2018, 141, 459-471.	7.6	143
100	Solid and gaseous cerebral microembolization during off-pump, on-pump, and open cardiac surgery procedures. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004, 127, 1759-1765.	0.8	141
101	Methamphetamine Activates Reward Circuitry in Drug NaÃve Human Subjects. <i>Neuropsychopharmacology</i> , 2004, 29, 1715-1722.	5.4	140
102	Low GABA concentrations in occipital cortex and anterior cingulate cortex in medication-free, recovered depressed patients. <i>International Journal of Neuropsychopharmacology</i> , 2008, 11, 255-60.	2.1	140
103	Schizophrenia delays and alters maturation of the brain in adolescence. <i>Brain</i> , 2009, 132, 2437-2448.	7.6	139
104	Brain Activity Changes Associated With Treadmill Training After Stroke. <i>Stroke</i> , 2009, 40, 2460-2467.	2.0	138
105	Structural and functional bases for individual differences in motor learning. <i>Human Brain Mapping</i> , 2011, 32, 494-508.	3.6	136
106	Neuroinflammation in treated HIV-positive individuals. <i>Neurology</i> , 2016, 86, 1425-1432.	1.1	136
107	A proton magnetic resonance spectroscopy study of focal epilepsy in humans. <i>Neurology</i> , 1990, 40, 985-985.	1.1	134
108	Evidence for abnormalities of cortical development in adolescent-onset schizophrenia. <i>NeuroImage</i> , 2008, 43, 665-675.	4.2	132

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109	Common genetic variation and susceptibility to partial epilepsies: a genome-wide association study. <i>Brain</i> , 2010, 133, 2136-2147.	7.6	132
110	Neuroplasticity and functional recovery in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2012, 8, 635-646.	10.1	128
111	Quantitative assessment of the reproducibility of functional activation measured with BOLD and MR perfusion imaging: Implications for clinical trial design. <i>NeuroImage</i> , 2005, 27, 393-401.	4.2	125
112	Perceiving identical sounds as speech or non-speech modulates activity in the left posterior superior temporal sulcus. <i>NeuroImage</i> , 2006, 30, 563-569.	4.2	125
113	Connectivity-based segmentation of the substantia nigra in human and its implications in Parkinson's disease. <i>NeuroImage</i> , 2010, 52, 1175-1180.	4.2	124
114	Investigation of white matter pathology in ALS and PLS using tract-based spatial statistics. <i>Human Brain Mapping</i> , 2009, 30, 615-624.	3.6	123
115	Genetic variation influences glutamate concentrations in brains of patients with multiple sclerosis. <i>Brain</i> , 2010, 133, 2603-2611.	7.6	123
116	Association of GSK3 β Polymorphisms With Brain Structural Changes in Major Depressive Disorder. <i>Archives of General Psychiatry</i> , 2009, 66, 721.	12.3	121
117	Using fMRI to Study Recovery from Acquired Dysphasia. <i>Brain and Language</i> , 2000, 71, 391-399.	1.6	120
118	Determination of [¹¹ C]PBR28 Binding Potential <i>in vivo</i> : A First Human TSPO Blocking Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 989-994.	4.3	117
119	The effect of hypointense white matter lesions on automated gray matter segmentation in multiple sclerosis. <i>Human Brain Mapping</i> , 2012, 33, 2802-2814.	3.6	116
120	Amyloid pathology and axonal injury after brain trauma. <i>Neurology</i> , 2016, 86, 821-828.	1.1	116
121	Accelerated evolution of brain atrophy and "black holes" in MS patients with APOE ϵ 4. <i>Annals of Neurology</i> , 2004, 55, 563-569.	5.3	109
122	Quantification of the Specific Translocator Protein Signal of ¹⁸ F-PBR111 in Healthy Humans: A Genetic Polymorphism Effect on In Vivo Binding. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1915-1923.	5.0	105
123	Endogenous Opioid Release in the Human Brain Reward System Induced by Acute Amphetamine Administration. <i>Biological Psychiatry</i> , 2012, 72, 371-377.	1.3	104
124	Hippocampal Neuroinflammation, Functional Connectivity, and Depressive Symptoms in Multiple Sclerosis. <i>Biological Psychiatry</i> , 2016, 80, 62-72.	1.3	103
125	A Pilot Randomized, Placebo Controlled, Double Blind Phase I Trial of the Novel SIRT1 Activator SRT2104 in Elderly Volunteers. <i>PLoS ONE</i> , 2012, 7, e51395.	2.5	102
126	Longitudinal and cross-sectional analysis of atrophy in Alzheimer's disease: Cross-validation of BSI, SIENA and SIENAX. <i>NeuroImage</i> , 2007, 36, 1200-1206.	4.2	100

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127	Functional MRI Correlates of Lower Limb Function in Stroke Victims With Gait Impairment. <i>Stroke</i> , 2008, 39, 1507-1513.	2.0	98
128	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , 2020, 26, 1654-1662.	30.7	98
129	Reactive astrocytes acquire neuroprotective as well as deleterious signatures in response to Tau and A β pathology. <i>Nature Communications</i> , 2022, 13, 135.	12.8	97
130	Demyelinated neocortical lesions in marmoset autoimmune encephalomyelitis mimic those in multiple sclerosis. <i>Brain</i> , 2005, 128, 2713-2721.	7.6	96
131	Characterisation of liver fat in the UK Biobank cohort. <i>PLoS ONE</i> , 2017, 12, e0172921.	2.5	95
132	Axonal Injury or Loss in the Internal Capsule and Motor Impairment in Multiple Sclerosis. <i>Archives of Neurology</i> , 2000, 57, 65.	4.5	94
133	Model-free characterization of brain functional networks for motor sequence learning using fMRI. <i>NeuroImage</i> , 2008, 39, 1950-1958.	4.2	94
134	Discordant white matter N-acetylaspartate and diffusion MRI measures suggest that chronic metabolic dysfunction contributes to axonal pathology in multiple sclerosis. <i>NeuroImage</i> , 2007, 36, 19-27.	4.2	93
135	Regional White Matter Integrity Differentiates Between Vascular Dementia and Alzheimer Disease. <i>Stroke</i> , 2009, 40, 773-779.	2.0	90
136	Reliable identification of the auditory thalamus using multi-modal structural analyses. <i>NeuroImage</i> , 2006, 30, 1112-1120.	4.2	89
137	Effects of Acute Nicotine Abstinence on Cue-elicited Ventral Striatum/Nucleus Accumbens Activation in Female Cigarette Smokers: A Functional Magnetic Resonance Imaging Study. <i>Brain Imaging and Behavior</i> , 2007, 1, 43-57.	2.1	89
138	Achievements and obstacles of remyelinating therapies in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2017, 13, 742-754.	10.1	89
139	Cerebral small vessel disease genomics and its implications across the lifespan. <i>Nature Communications</i> , 2020, 11, 6285.	12.8	89
140	Independent anatomical and functional measures of the V1/V2 boundary in human visual cortex. <i>Journal of Vision</i> , 2005, 5, 1.	0.3	86
141	Pathway-based approaches to imaging genetics association studies: Wnt signaling, GSK3beta substrates and major depression. <i>NeuroImage</i> , 2010, 53, 908-917.	4.2	86
142	A Multi-Center Randomized Proof-of-Concept Clinical Trial Applying [18F]FDG-PET for Evaluation of Metabolic Therapy with Rosiglitazone XR in Mild to Moderate Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2011, 22, 1241-1256.	2.6	86
143	Genetic and functional insights into the fractal structure of the heart. <i>Nature</i> , 2020, 584, 589-594.	27.8	86
144	Studies of metabolism in the isolated, perfused rat heart using 13 C NMR. <i>FEBS Letters</i> , 1981, 123, 315-318.	2.8	85

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145	Functional segmentation of the hippocampus in the healthy human brain and in Alzheimer's disease. <i>NeuroImage</i> , 2013, 66, 28-35.	4.2	85
146	Reduced cerebrovascular reactivity in young adults carrying the <i>APOE</i> ϵ 4 allele. <i>Alzheimer's and Dementia</i> , 2015, 11, 648.	0.8	84
147	Association of regional gray matter volume loss and progression of white matter lesions in multiple sclerosis – A longitudinal voxel-based morphometry study. <i>NeuroImage</i> , 2009, 45, 60-67.	4.2	83
148	In Vivo Assessment of Brain White Matter Inflammation in Multiple Sclerosis with ¹⁸ F-PBR111 PET. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1112-1118.	5.0	82
149	Chronic inflammation in multiple sclerosis – seeing what was always there. <i>Nature Reviews Neurology</i> , 2019, 15, 582-593.	10.1	81
150	Cerebral dysgenesis and lactic acidemia: An MRI/MRS phenotype associated with pyruvate dehydrogenase deficiency. <i>Pediatric Neurology</i> , 1994, 11, 224-229.	2.1	80
151	Reproducibility and variability of quantitative magnetic resonance imaging markers in cerebral small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1319-1337.	4.3	80
152	Clinical Concepts Emerging from fMRI Functional Connectomics. <i>Neuron</i> , 2016, 91, 511-528.	8.1	80
153	<i>TSPO</i> mutations in rats and a human polymorphism impair the rate of steroid synthesis. <i>Biochemical Journal</i> , 2017, 474, 3985-3999.	3.7	80
154	Diverse human astrocyte and microglial transcriptional responses to Alzheimer's pathology. <i>Acta Neuropathologica</i> , 2022, 143, 75-91.	7.7	80
155	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 18.	3.3	78
156	Self-Supervised Learning for Cardiac MR Image Segmentation by Anatomical Position Prediction. <i>Lecture Notes in Computer Science</i> , 2019, , 541-549.	1.3	78
157	Relating functional changes during hand movement to clinical parameters in patients with multiple sclerosis in a multi-centre fMRI study. <i>European Journal of Neurology</i> , 2008, 15, 113-122.	3.3	75
158	Functional and structural changes in the memory network associated with left temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2009, 30, 4070-4081.	3.6	75
159	Imaging Brain Microglial Activation Using Positron Emission Tomography and Translocator Protein-Specific Radioligands. <i>International Review of Neurobiology</i> , 2011, 101, 19-39.	2.0	75
160	Neuroinflammation and its relationship to changes in brain volume and white matter lesions in multiple sclerosis. <i>Brain</i> , 2017, 140, 2927-2938.	7.6	75
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